

MONOTUBE PISTON VALVING SYSTEM WITH SELECTIVE BLEED

ABSTRACT OF THE DISCLOSURE

A shock absorber piston assembly includes a piston having a first face, a second face and a plurality of fluid passages. Preloaded flow control devices each seal at least one of the fluid passages, including: a first bleed plate contacting the first face and a second bleed plate contacting the second face; and a pair of blow-off discs, with a first blow-off disc contacting the first face and a second blow-off disc contacting the second face. Each of the flow control devices opens at an individually adjustable device opening pressure. Each of the multiple passages in contact with the blow-off discs can also differ in flow area to permit the blow-off discs to angularly lift to limit disc chatter.